

Title (en)
METHOD FOR MANUFACTURING HIGH STRENGTH STEEL STRIPS WITH SUPERIOR FORMABILITY AND EXCELLENT COATABILITY

Title (de)
VERFAHREN ZUR HERSTELLUNG VON HOCHFESTEN STAHLBÄNDERN MIT ÜBERLEGENER FORMBARKEIT UND HERVORRAGENDER BESCHICHTBARKEIT

Title (fr)
PROCEDE DE FABRICATION DE BANDES D'ACIER HAUTE RESISTANCE PRESENTANT UNE MEILLEURE APTITUDE AU FORMAGE ET UNE EXCELLENTE APTITUDE AU REVETEMENT

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Application
EP 06835359 A 20061222

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Abstract (en)
[origin: WO2007075008A1] A method for manufacturing a steel sheet used for structural members, elements, etc. of automobiles, such as a variety of members of automobiles including a front side member, pillar, and the like, and more particularly, a method for manufacturing a steel sheet having a high strength and formability as well as hot-dip galvanizing properties is disclosed. In the method, after an aluminum killed steel slab, which comprises, by weight %, : C: 0.05% to 0.25%; Si: 0.1% to 1.5%; S: 0.02% or less; N: 0.01% or less; Al: 0.02% to 2.0%; Mn: 1.0% to 2.5%; P: 0.001% to 0.1%; Sb: 0.005% to 0.10%; the balance of Fe and other unavoidable impurities, is subjected to a homogenization treatment at a temperature range of 10500C to 13000C, the aluminum killed steel slab is subjected to a hot rolling under a finishing hot rolling temperature of 8500C to 9500C and a coiling temperature of 4000C to 7000C, followed by a cold rolling under a cold rolling reduction ratio of 30% to 80%, and annealing the cold rolled steel sheet.

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